



57637.1182.ST25.txt  
SEQUENCE LISTING

<110> Bracco International BV  
<120> Multivalent Constructs for Therapeutic and Diagnostic Applications  
<130> 57637-1182  
<140> 10/379,287  
<141> 2003-03-03  
<160> 41  
<170> PatentIn version 3.2  
<210> 1  
<211> 18  
<212> PRT  
<213> Artificial  
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<223> Description of Artificial Sequence: KDR-binding peptides  
<400> 1  
Ala Gly Trp Ile Glu Cys Tyr His Pro Asp Gly Ile Cys Tyr His Phe  
1 5 10 15

Gly Thr

<210> 2  
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<400> 2  
Ala Gly Trp Leu Glu Cys Tyr Ala Glu Phe Gly His Cys Tyr Asn Phe  
1 5 10 15

Gly Thr

<210> 3  
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 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 3

Ala	Gly	Asp	Ser	Trp	Cys	Ser	Thr	Glu	Tyr	Thr	Tyr	Cys	Glu	Met	Ile
1				5					10					15	

Gly Thr

<210> 4  
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<400> 4

Ala	Gly	Pro	Lys	Trp	Cys	Glu	Glu	Asp	Trp	Tyr	Tyr	Cys	Met	Ile	Thr
1				5					10					15	

Gly Thr

<210> 5  
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<400> 5

Gly Asp Ser Arg Val Cys Trp Glu Asp Ser Trp Gly Gly Glu Val Cys  
1 5 10 15

Phe Arg Tyr Asp Pro  
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<210> 6

<211> 22

<212> PRT

<213> Artificial

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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 6

Gly Asp Trp Trp Glu Cys Lys Arg Glu Glu Tyr Arg Asn Thr Thr Trp  
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Cys Ala Trp Ala Asp Pro  
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<210> 7

<211> 22

<212> PRT

<213> Artificial

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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 7

Gly Asp Pro Asp Thr Cys Thr Met Trp Gly Asp Ser Gly Arg Trp Tyr  
1 5 10 15

Cys Phe Pro Ala Asp Pro  
20

<210> 8

<211> 24

<212> PRT  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 8

Ala Gln Glu Pro Glu Gly Tyr Ala Tyr Trp Glu Val Ile Thr Leu Tyr  
1 5 10 15

His Glu Glu Asp Gly Asp Gly Gly  
20

<210> 9  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 9

Ala Gln Ala Phe Pro Arg Phe Gly Gly Asp Asp Tyr Trp Ile Gln Gln  
1 5 10 15

Tyr Leu Arg Tyr Thr Asp Gly Gly  
20

<210> 10  
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<212> PRT  
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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 10

Ala Gln Gly Asp Tyr Val Tyr Trp Glu Ile Ile Glu Leu Thr Gly Ala  
1 5 10 15

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Thr Asp His Thr Pro Pro Gly Gly  
20

<210> 11  
<211> 18  
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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 11

Ala Gly Pro Thr Trp Cys Glu Asp Asp Trp Tyr Tyr Cys Trp Leu Phe  
1 5 10 15

Gly Thr

<210> 12  
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<212> PRT  
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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 12

Ala Gln Asp Trp Tyr Tyr Asp Glu Ile Leu Ser Met Ala Asp Gln Leu  
1 5 10 15

Arg His Ala Phe Leu Ser Gly Gly  
20

<210> 13  
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<212> PRT  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 13

Gly Ser Asp His His Cys Tyr Leu His Asn Gly Gln Trp Ile Cys Tyr  
1 5 10 15

Pro Phe Ala Pro Gly Gly Gly Lys  
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<210> 14  
<211> 26  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 14

Gly Asp Tyr Pro Trp Cys His Glu Leu Ser Asp Ser Val Thr Arg Phe  
1 5 10 15

Cys Val Pro Trp Asp Pro Gly Gly Gly Lys  
20 25

<210> 15  
<211> 26  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 15

Gly Asp Asp His Met Cys Arg Ser Pro Asp Tyr Gln Asp His Val Phe  
1 5 10 15

Cys Met Tyr Trp Asp Pro Gly Gly Gly Lys  
20 25

<210> 16  
<211> 26

<212> PRT  
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<220>  
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Gly Asp Pro Pro Leu Cys Tyr Phe Val Gly Thr Gln Glu Trp His His  
1 5 10 15

Cys Asn Pro Phe Asp Pro Gly Gly Gly Lys  
20 25

<210> 17  
<211> 26  
<212> PRT  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: KDR-binding peptides  
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Gly Asp Gly Ser Trp Cys Glu Met Arg Gln Asp Val Gly Lys Trp Asn  
1 5 10 15

Cys Phe Ser Asp Asp Pro Gly Gly Gly Lys  
20 25

<210> 18  
<211> 26  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides  
<400> 18

Ala Gln Arg Gly Asp Tyr Gln Glu Gln Tyr Trp His Gln Gln Leu Val  
1 5 10 15

Glu Gln Leu Lys Leu Leu Gly Gly Gly Lys  
20 25

<210> 19  
<211> 26  
<212> PRT  
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<220>  
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<400> 19

Gly Asp Asn Trp Glu Cys Gly Trp Ser Asn Met Phe Gln Lys Glu Phe  
1 5 10 15

Cys Ala Arg Pro Asp Pro Gly Gly Gly Lys  
20 25

<210> 20  
<211> 23  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<220>  
<221> MOD\_RES  
<222> (7)..(7)

<220>  
<221> MOD\_RES  
<222> (7)..(7)  
<223> (4,4-dimethyl-2,6-dioxocyclohex-1-ylidene)-3-methylbutyl

<400> 20

Ala Gly Pro Gly Pro Cys Lys Gly Tyr Met Pro His Gln Cys Trp Tyr  
1 5 10 15

Met Gly Thr Gly Gly Gly Lys  
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<210> 21  
 <211> 23  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 21

Ala Gly Tyr Gly Pro Cys Ala Glu Met Ser Pro Trp Leu Cys Trp Tyr  
 1 5 10 15

Pro Gly Thr Gly Gly Gly Lys  
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<210> 22  
 <211> 20  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 22

Ala Gln Asp Trp Tyr Tyr Glu Ile Leu Gly Arg Gly Gly Arg Gly Gly  
 1 5 10 15

Arg Gly Gly Lys  
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<210> 23  
 <211> 22  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Description of Artificial Sequence: KDR-binding peptides

<400> 23

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Ala Pro Gly Thr Trp Cys Asp Tyr Asp Trp Glu Tyr Cys Trp Leu Gly  
1 5 10 15

Thr Phe Gly Gly Gly Lys  
20

<210> 24  
<211> 25  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 24

Gly Val Asp Phe Arg Cys Glu Trp Ser Asp Trp Gly Glu Val Gly Cys  
1 5 10 15

Arg Ser Pro Asp Tyr Gly Gly Gly Lys  
20 25

<210> 25  
<211> 24  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 25

Gly Ser Pro Glu Met Cys Met Met Phe Pro Phe Leu Tyr Pro Cys Asn  
1 5 10 15

His His Ala Pro Gly Gly Gly Lys  
20

<210> 26  
<211> 24  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 26

Gly Ser Phe Phe Pro Cys Trp Arg Ile Asp Arg Phe Gly Tyr Cys His  
1 5 10 15

Ala Asn Ala Pro Gly Gly Gly Lys  
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<210> 27

<211> 26

<212> PRT

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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 27

Ala Gln Glu Trp Glu Arg Glu Tyr Phe Val Asp Gly Phe Trp Gly Ser  
1 5 10 15

Trp Phe Gly Ile Pro His Gly Gly Gly Lys  
20 25

<210> 28

<211> 26

<212> PRT

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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 28

Gly Asp Tyr Ser Glu Cys Phe Phe Glu Pro Asp Ser Phe Glu Val Lys  
1 5 10 15

Cys Tyr Asp Arg Asp Pro Gly Gly Gly Lys  
20 25

<210> 29  
 <211> 22  
 <212> PRT  
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 <400> 29

Ala Gly Pro Thr Trp Cys Glu Asp Asp Trp Tyr Tyr Cys Trp Leu Phe  
 1 5 10 15

Gly Thr Gly Gly Gly Lys  
 20

<210> 30  
 <211> 21  
 <212> PRT  
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 <400> 30

Glu Arg Val Thr Thr Cys Trp Pro Gly Glu Tyr Gly Gly Val Glu Cys  
 1 5 10 15

Tyr Ser Val Ala Tyr  
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<210> 31  
 <211> 23  
 <212> PRT  
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 <400> 31

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Ala Gly Pro Gly Pro Cys Lys Gly Tyr Met Pro His Gln Cys Trp Tyr  
1 5 10 15

Met Gly Thr Gly Gly Gly Lys  
20

<210> 32  
<211> 23  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 32

Ala Gly Met Pro Trp Cys Val Glu Lys Asp His Trp Asp Cys Trp Trp  
1 5 10 15

Trp Gly Thr Gly Gly Gly Lys  
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<210> 33  
<211> 23  
<212> PRT  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 33

Ala Gly Tyr Gly Pro Cys Lys Asn Met Pro Pro Trp Met Cys Trp His  
1 5 10 15

Glu Gly Thr Gly Gly Gly Lys  
20

<210> 34  
<211> 8  
<212> PRT  
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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 34

Asp Trp Tyr Tyr Gly Gly Gly Lys  
1 5

<210> 35

<211> 10

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 35

Ala Gln Asp Trp Tyr Tyr Asp Glu Ile Leu  
1 5 10

<210> 36

<211> 19

<212> PRT

<213> Artificial

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<223> Description of Artificial Sequence: KDR-binding peptides

<400> 36

Ala Gln Asp Trp Tyr Tyr Asp Glu Ile Leu Gly Arg Gly Arg Gly Gly  
1 5 10 15

Arg Gly Gly

<210> 37

<211> 22

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 37

Ala Gly Pro Thr Trp Glu Glu Asp Asp Trp Tyr Tyr Lys Trp Leu Phe  
1 5 10 15

Gly Thr Gly Gly Gly Lys  
20

<210> 38

<211> 22

<212> PRT

<213> Artificial

<220>

<223> Description of Artificial Sequence: KDR-binding peptides

<400> 38

Ala Gly Pro Thr Trp Lys Glu Asp Asp Trp Tyr Tyr Glu Trp Leu Phe  
1 5 10 15

Gly Thr Gly Gly Gly Lys  
20

<210> 39

<211> 21

<212> PRT

<213> Artificial

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<223> Description of Artificial Sequence: KDR-binding peptides

<220>

<221> MOD\_RES

<222> (5)..(5)

<223> 2,3-diaminopropanoic acid

<400> 39

Ala Gly Pro Thr Trp Glu Asp Asp Trp Tyr Tyr Asp Trp Leu Phe Gly  
1 5 10 15

Thr Gly Gly Gly Lys  
20

<210> 40  
<211> 21  
<212> PRT  
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<220>  
<221> MOD\_RES  
<222> (12)..(12)  
<223> 2,3-diaminopropanoic acid

<400> 40

Ala	Gly	Pro	Thr	Trp	Asp	Glu	Asp	Asp	Trp	Tyr	Tyr	Trp	Leu	Phe	Gly
1				5					10					15	

Thr Gly Gly Gly Lys  
20

<210> 41  
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<212> PRT  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: KDR-binding peptides

<400> 41

Ala	Gly	Pro	Thr	Trp	Asp	Glu	Asp	Asp	Trp	Tyr	Tyr	Lys	Trp	Leu	Phe
1				5					10					15	

Gly Thr Gly Gly Gly Lys  
20